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OM nucleic - nucleic search, using sw model

Run on: November 30, 2002, 10:19:08 : Search time 90 Seconds

(without alignments)
11835.881 Million cell updates/sec

File: us-10-054-680-1

Perfect score: 2766
Sequence: 1 atggcgtggttaagttgca.....gtacatcaaggggttctaa 2766

Scoring table:
Gapop 10.0, Gapext 1.0

Searched: 341543 seqs, 19255720 residues

Total number of hits satisfying chosen parameters: 683086

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database 8 Published Applications NABO

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	2766	100.0	2766	12 US-10-054-680-1	Sequence 1, Appl1
2	2766	100.0	1812	12 US-10-054-680-1	Sequence 5, Appl1
3	2766	99.8	2766	05-09-804-474A-1	Sequence 1, Appl1
4	1784.8	64.5	126512	10 US-09-804-474A-3	Sequence 3, Appl1
5	1784.8	64.5	1863	12 US-10-054-680-3	Sequence 3, Appl1
6	1227.8	44.4	4087	10 US-09-901-419-1	Sequence 1, Appl1
7	787.2	28.5	1836	10 US-09-864-761-16939	Sequence 16939, A
8	219.4	7.9	381	10 US-09-864-761-1172	Sequence 1172, Ap
9	186.4	6.7	491	10 US-09-864-761-646	Sequence 646, App
10	186.2	6.7	276	10 US-09-864-761-17437	Sequence 17437, A
11	164.2	5.9	459	10 US-09-864-761-102	Sequence 102, App
12	95	3.4	151	10 US-09-864-761-17938	Sequence 17938, A
13	76.6	2.8	1617	9 US-09-938-842A-2591	Sequence 2591, Ap
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15	60	2.2	467	10 US-09-864-761-3975	Sequence 3975, A
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17	50.8	1.8	1062	10 US-09-961-679-5	Sequence 5, Appl1
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c	44	37	1.3	514	10	US-09-998-598-2124	Sequence 2124, Ap
	45	36.6	1.3	522	9	US-10-101-487-71	Sequence 71, Appl

ALIGNMENTS

RESULT 1

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US-10-054-680-1
; Sequence 1, Application US/10054680
; Patent No. US20020132998A1
; GENERAL INFORMATION:
; APPLICANT: Fiddle, Carl Johan
; APPLICANT: Hilbun, Erin
; TITLE OF INVENTION: No. US20020132998A1 Human Ion Exchanger Proteins and Polynuc
; FILE REFERENCE: Same
; CURRENT APPLICATION NUMBER: US/10/054,680
; CURRENT FILING DATE: 2002-01-22
; PRIOR APPLICATION NUMBER: US 60/263,384
; PRIOR FILING DATE: 2001-01-23
; NUMBER OF SEQ ID NOS: 5
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 1
; LENGTH: 2766
; TYPE: DNA
; ORGANISM: homo sapiens
US-10-054-680-1
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Best Local Similarity 100.0%; Pred. No. 0; Matches 2766; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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RESULT 4
US-09-804-474A-3
; Sequence 3, Application US/09804474A
; Patent No. US20020119518A1
; GENERAL INFORMATION:
; APPLICANT: KODET, Stefan et al
; TITLE OF INVENTION: ISOLATED HUMAN TRANSPORTER PROTEINS,
; TITLE OF INVENTION: NUCLEIC ACID MOLECULES ENCODING HUMAN TRANSPORTER PROTEINS,
; FILE REFERENCE: CL000891
; CURRENT APPLICATION NUMBER: US/09/804,474A
; NUMBER OF SEQ. ID NOS: 4
; SOFTWARE: FASTSEQ for Windows Version 4.0
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; ORGANISM: Human
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; LOCATION: (1)..(126512)
; OTHER INFORMATION: n = A,T,C or G
US-09-804-474A-3

Query Match 64.5%; Score 1784.8; DB 10; Length 126512;

Best Local Similarity 99.9%; Pred. No. 0;

Matches 1786; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

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Db 2010 ATGCGTGGTTAAGTTGACGCTCTCACCCTGCTCTCTCTCAATTTGGGCTGTTACC 2069
QY 61 TTTGTGCTCTCTGAAATGCTTTGAGCAGAGGCTGTGGCTCAGGGGAGCTGCCAAGC 120
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Db 2070 TTTGTGCTCTCTGAAATGCTTTGAGCAGAGGCTGTGGCTCAGGGGAGCTGCCAAGC 2129
QY 121 ACAGGGGAGAACATGAGTCTCTGTCAGGGTGCATCGACATGACAGAGGGTGTATCTG 180
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Db 2130 ACAGGGGAGAACATGAGTCTCTGTCAGGGTGCATCGACATGACAGAGGGTGTATCTG 2189
QY 181 CCAATCTGTTACCGGAGAACCTTCCCTTGGGAGCAAGATTGGCAGGGTCTATGCTAT 240
|||
Db 2190 CCAATCTGTTACCGGAGAACCTTCCCTTGGGAGCAAGATTGGCAGGGTCTATGCTAT 2249
QY 241 TTTGTGCGCTGATATACATGTTCTTGGGGTGTCAATCATTTGCTGAACCGCTTCATGGA 300
|||
Db 2250 TTTGTGCGCTGATATACATGTTCTTGGGGTGTCAATCATTTGCTGAACCGCTTCATGGA 2309
QY 301 TCTATTGAAGTCATCACCCTCTCAGAGAGGAGGTGACATTAAGAAACCAATGAGAA 360
|||
Db 2310 TCTATTGAAGTCATCACCCTCTCAGAGAGGAGGTGACATTAAGAAACCAATGAGAA 2369
QY 361 ACCAGCAACCACTATTGGGCTGTGGAATGAACCTGTCCAACTGACCCCTTATGGC 420
|||
Db 2370 ACCAGCAACCACTATTGGGCTGTGGAATGAACCTGTCTCAACCTGACCCCTTATGGC 2429

QY 421 CTGGGTCCTCTGCTCTGAGATCTCTCTCTTTAAATGAGTGTGTGATGGCTTC 480
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Db 2430 CTGGGTCCTCTGCTCTGAGATCTCTCTCTTTAAATGAGTGTGTGATGGCTTC 2489
QY 481 ATTCTGTGATCTGGGACCTTACCATGTGTAGGAGTGCAGGCTTCAACATGTATC 540
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Db 2490 ATTCTGTGATCTGGGACCTTACCATGTGTAGGAGTGCAGGCTTCAACATGTATC 2549
QY 541 ATCATTTGGCATCTGTGTCTACGTGATCCAGACGAGAGACTCCCAAGATCAACATCTA 600
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Db 2550 ATCATTTGGCATCTGTGTCTACGTGATCCAGACGAGAGACTCCCAAGATCAACATCTA 2609
QY 601 CGAGTCTTCTCATACCGCTGTTGAGATCTTTGCCATCATCTGCTCTATATGAT 660
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Db 2610 CGAGTCTTCTCATACCGCTGTTGAGATCTTTGCCATCATCTGCTCTATATGAT 2669
QY 661 CTGGCAGCTCTCTCCCTGGTGTGTCCAGTTTGGGAAGGCCCTCCACCTCTCTTC 720
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Db 2670 CTGGCAGCTCTCTCCCTGGTGTGTCCAGTTTGGGAAGGCCCTCCACCTCTCTTC 2729
QY 721 TTTCCAGTGTGTCTCTTCTGCTGGGCTGGGAGATTAACGACTCTTCTCAAAATAC 780
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Db 2730 TTTCCAGTGTGTCTCTTCTGCTGGGCTGGGAGATTAACGACTCTTCTCAAAATAC 2789
QY 781 ATGCACAAAAAGTACCGCAGACAGACAAACCCGAGAAATATCATAGACAGAGGTGAC 840
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Db 2790 ATGCACAAAAAGTACCGCAGACAGACAAACCCGAGAAATATCATAGACAGAGGTGAC 2849
QY 841 CACCTTAAGGCAATGAGATGAGTGGGAAAAATGTAATTCCTTTCTAGATGGGAC 900
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Db 2850 CACCTTAAGGCAATGAGATGAGTGGGAAAAATGTAATTCCTTTCTAGATGGGAC 2909
QY 901 CTGTGCCCCCTGGAAGGGAAGAGTGAATGATCCCGCAGAGAGATGATCCGATCTC 960
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Db 2910 CTGTGCCCCCTGGAAGGGAAGAGTGAATGATCCCGCAGAGAGATGATCCGATCTC 2969
QY 961 AAGGATCTGAAGCAAAAAACCCAGAGAGACTTATGATCAGTGTGAGAGTCCCAAT 1020
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Db 2970 AAGGATCTGAAGCAAAAAACCCAGAGAGACTTATGATCAGTGTGAGAGTCCCAAT 3029
QY 1021 TACTATGCTCTTCCACCAAGAGAGCGGCCCTTATACGCTATCCAAAGCCTCTGT 1080
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Db 3030 TACTATGCTCTTCCACCAAGAGAGCGGCCCTTATACGCTATCCAAAGCCTCTGT 3089
QY 1081 ATGATGACTGTGCGAGCAATATCTGAAGAAATGATCAGACAGCAAGCAAGCAAGAGGCC 1140
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Db 3090 ATGATGACTGTGCGAGCAATATCTGAAGAAATGATCAGACAGCAAGCAAGCAAGAGGCC 3149
QY 1141 TCCAGCATGAGCAGAGTGCACACCGATGAGCTGAGACATTTATTTCCAAAGCTCTCTT 1200
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Db 3150 TCCAGCATGAGCAGAGTGCACACCGATGAGCTGAGACATTTATTTCCAAAGCTCTCTT 3209
QY 1201 GACCCATGTTCTTACAGTGTCTGAGAACCTGTGGGCTGTACTCTGACAGTGGTAGG 1260
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Db 3210 GACCCATGTTCTTACAGTGTCTGAGAACCTGTGGGCTGTACTCTGACAGTGGTAGG 3269
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Db 3270 AAAGGGGAGACATGTCAAAAGACCATGTATGTGACTTACAAAACAGAGATGTTCTGCC 3329
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Db 3390 CAGAGAGAGTTCCTCCGAGCATATATGATGAGACATTTTGTAGAGGATGAACCTTC 3449
QY 1441 TTTTAAAGTTGAGCAATGTCCGATGAGAGAGAGCAGAGGAGGAGGATGCTCCCA 1500
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Db 3450 TTTTAAAGTTGAGCAATGTCCGATGAGAGAGAGCAGAGGAGGAGGATGCTCCCA 3509
QY 1501 GCAATATTCAACAGTCTTCCCTTGGCTCGGGCTGTCTTACCTCCCTTGTGTGGCCACA 1560

|||||
Db 3510 GGAATATTCACAGTCTTCCCTGGCTCGGGCTGCTCTAGCCCTCCCTGTGGGCACA 3569
Oy 1561 GTTACACATTTGGAGATGATACCATGAGCATCTTACATTTGAATGATACTATTCAT 1620
Db 3570 GTTACCATCTTGGAGATGATACCATGAGCATCTTACATTTGAATGATACTATTCAT 3629
Oy 1621 GTGAGTGAAGATTTGGTGTATGAGAGTCAAGGTTCTCGGACATCAGTGGCCGGGGT 1680
Db 3630 GTGAGTGAAGATTTGGTGTATGAGAGTCAAGGTTCTCGGACATCAGTGGCCGGGGT 3689
Oy 1681 ACAGTCAATGTCCTCCCTTTAGACAGATGAGAGGACCCAAAGGCTGGCGTGAAGACTTT 1740
Db 3690 ACAGTCAATGTCCTCCCTTTAGACAGATGAGAGGACCCAAAGGCTGGCGTGAAGACTTT 3749
Oy 1741 GAAGACACATATGGGAGAGTGGATTCAGAAATGATGAACCTGTGA 1788
Db 3750 GAAGACACATATGGGAGAGTGGATTCAGAAATGATGAACCTGTGA 3797

RESULT 5

US-10-054-680-3
; Sequence 3, Application US/10054680
; Patent No. US20020132998A1
; GENERAL INFORMATION:
; APPLICANT: Fiddle, Carl Johan
; APPLICANT: Hilbun, Erin
; TITLE OF INVENTION: No. US20020132998A1 Human Ion Exchanger Proteins and Polynucle
; TITLE OF INVENTION: Same
; FILE REFERENCE: LEX-0301-USA
; CURRENT APPLICATION NUMBER: US/10/054,680
; CURRENT FILING DATE: 2002-01-22
; PRIOR APPLICATION NUMBER: US 60/263,384
; PRIOR FILING DATE: 2001-01-23
; NUMBER OF SEQ ID NOS: 5
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 3
; LENGTH: 1863
; TYPE: DNA
; ORGANISM: homo sapiens
; US-10-054-680-3

Query Match 64.5%; Score 1784.6; DB 12; Length 1863;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1784; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Oy 1 ATGGCGTGTAAAGTTGAGCCTCTACCTCTCCCTCCATTTTGGCGTTTACC 60
Db 1 ATGGCGTGTAAAGTTGAGCCTCTACCTCTCCCTCCATTTTGGCGTTTACC 60
Oy 61 TTTGTGCTTCTTCTGAATGCTCTGACAGAGGCTGTGGCTCAGGGAGCTGCCAAGC 120
Db 61 TTTGTGCTTCTTCTGAATGCTCTGACAGAGGCTGTGGCTCAGGGAGCTGCCAAGC 120
Oy 121 ACAGGCGAACAATAGTCTGTTCAGGATCATCGAGCTGCAAGAGGCTGCATCTG 180
Db 121 ACAGGCGAACAATAGTCTGTTCAGGATCATCGAGCTGCAAGAGGCTGCATCTG 180
Oy 181 CCAATCTGTACCCGAGAACCTTCCCTTGGGGACAAGATTGCGAGGGTCAATTTGCTAT 240
Db 181 CCAATCTGTACCCGAGAACCTTCCCTTGGGGACAAGATTGCGAGGGTCAATTTGCTAT 240
Oy 241 TTTGTGCGCTGATATACATGTTCTTGGGGTGTCCATCATTTGCTACCGCTTCATGGCA 300
Db 241 TTTGTGCGCTGATATACATGTTCTTGGGGTGTCCATCATTTGCTACCGCTTCATGGCA 300
Oy 301 TCTATTAAGTCACTCTCTCAAGAGAGGAGTGAATTAAGAAACCAATGAGAA 360
Db 301 TCTATTAAGTCACTCTCTCAAGAGAGGAGTGAATTAAGAAACCAATGAGAA 360
Oy 361 ACCAGACAACACTATTCGGGTCTGAAATGAACCTGTCTCCAACCTGAACCTTATGGCC 420
Db 361 ACCAGACAACACTATTCGGGTCTGAAATGAACCTGTCTCCAACCTGAACCTTATGGCC 420

Oy 421 CTGGTTCCTCTGCTCTGAGATACCTCTCTTAAATGAGGTGTGTGTCATGGGTTG 480
Db 421 CTGGTTCCTCTCTCTCTGAGATACCTCTCTTAAATGAGGTGTGTGTCATGGGTTG 480
Oy 481 ATTGCTGTGATCTGGAGACCTTCTACCATTTGAAGAGTGCACCTTCAACATGTTTATC 540
Db 481 ATTGCTGTGATCTGGAGACCTTCTACCATTTGAAGAGTGCACCTTCAACATGTTTATC 540
Oy 541 ATATTGGCATCTGTGTCTACGTGATCCAGACGAGAGACTCGCAAGATCAAGCATCTA 600
Db 541 ATATTGGCATCTGTGTCTACGTGATCCAGACGAGAGACTCGCAAGATCAAGCATCTA 600
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Db 601 CGAGTCTTCTCAACCCGCTGCTTGGAGATCTTGGCCATCTGGCTCTATGATTT 660
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Db 661 CTGGCATCTCTCCCTGCTGTGTCTCAGAGTTGGGAAGGCTCCTCACTCTCTTTC 720
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Oy 841 CACCTTAAGGCGATTGAGATGATGGGAAATGATGAATCCATTTTCTAGATGGGAAC 900
Db 841 CACCTTAAGGCGATTGAGATGATGGGAAATGATGAATCCATTTTCTAGATGGGAAC 900
Oy 901 CTGGTCCCTCTGAGAGGAAAGATGATGATCCCGCAGAGATGATCGGATTTCTC 960
Db 901 CTGGTCCCTCTGAGAGGAAAGATGATGATGATCCCGCAGAGATGATCGGATTTCTC 960
Oy 961 AAGGATCTGAAGCAAAACCCAGAGAAAGACTTGTGATGCTGTGGAGATGGCCAT 1020
Db 961 AAGGATCTGAAGCAAAACCCAGAGAAAGACTTGTGATGCTGTGGAGATGGCCAT 1020
Oy 1021 TACTATGCTCTTCCACCAACAGAGAGCGGCTTCTTACCTGATCCAGGACCTGCT 1080
Db 1021 TACTATGCTCTTCCACCAACAGAGAGCGGCTTCTTACCTGATCCAGGACCTGCT 1080
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Db 1081 ATGATGACTGTGTGACAGCAATATCTGAAAGAAATGACAGCAAGCAAGAGAGGCC 1140
Oy 1141 TCCAGATGAGCAGAGTGCACACCGATGAGCTGTGAGAGCTTTATTTCCAAAGTCTTCT 1200
Db 1141 TCCAGATGAGCAGAGTGCACACCGATGAGCTGTGAGAGCTTTATTTCCAAAGTCTTCT 1200
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Oy 1261 AAAGGGGAGACATGTCAAAAGACATGATGTGAGCTACAAAACAAGAGATGCTTGCC 1320
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Oy 1321 AATGCAAGGGCTGACATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1380
Db 1321 AATGCAAGGGCTGACATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1380
Oy 1381 CAGAAAGAGTTCCTGCGGCAATTTGATGAGCAATTTTGAAGAGATGAACACTTC 1440
Db 1381 CAGAAAGAGTTCCTGCGGCAATTTGATGAGCAATTTTGAAGAGATGAACACTTC 1440
Oy 1441 TTTGTAAGGTTGAGCAATGTCCGATAGAGAGAGAGCAGAGAGAGGAGATGCTCCA 1500
Db 1441 TTTGTAAGGTTGAGCAATGTCCGATAGAGAGAGAGCAGAGAGAGGAGATGCTCCA 1500

QY 1501 GCATATTTCAACACAGCTCTTCCCTTCCCTGGGGGTCTTACCTCCCTTGTGGCACA 1560
Dp 1501 GCATATTTCAACACAGCTCTTCCCTTCCCTGGGGGTCTTACCTCCCTTGTGGCACA 1560
QY 1561 GTTACCATCTTGATGATGATGACCATGACGACATCTTCACTTTGATGATGATTAATTCAAT 1620
Dp 1561 GTTACCATCTTGATGATGATGACCATGACGACATCTTCACTTTGATGATGATTAATTCAAT 1620
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Dp 1621 GTTCAGTGAAGATATTGGTGTATTGAGAGGTCAAGGTTTGTGGCAATCAGATGGCCGGGGT 1680
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Dp 1681 ACAATCATCTGTCCTTTTAGGACAGTGAAGGGACACCCAAAGGTGGCGGTGAGACTTT 1740
QY 1741 GAAGACACATATGAGGAGGTGGAAATTCAGATATGATGAATCTGT 1784
Dp 1741 GAAGACACATATGAGGAGGTGGAAATTCAGATATGATGAATCTGT 1784

RESULT 6
S-09-90

```

Sequence 1 Application US/09901419
Patent No. US20020069421A1
GENERAL INFORMATION:
APPLICANT: The Curators of the University of Missouri
TITLE OF INVENTION: LARGE SCALE EXPRESSION AND PURIFICATION OF RECOMBINANT
TITLE OF INVENTION: PROTEINS
FILE REFERENCE: UMO1531.1
CURRENT APPLICATION NUMBER: US/09/901,419
CURRENT FILING DATE: 2001-07-09
PRIOR APPLICATION NUMBER: 60/218,125
PRIOR FILING DATE: 2000-01-13
NUMBER OF SEQ. ID NOS: 2
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 1
LENGTH: 4087
TYPE: DNA
ORGANISM: Bos taurus
FEATURE:
NAME/KEY: CDS
LOCATION: (268)..(3180)
NAME/KEY: sig_peptide
LOCATION: (268)..(363)
NAME/KEY: misc_feature
LOCATION: (3178)
OTHER INFORMATION: A Poly (H) affinity tag comprising 6 His residues
OTHER INFORMATION: have been inserted at the C-Terminus end of the
OTHER INFORMATION: coding region of the protein
S-09-901-419-1

```

Query Match	44.4%;	Score 1227.8;	DB 10;	Length 4087;
Best Local Similarity	67.1%;	Pred. No. 0;		
Matches 1935;	Conservative	0;	Mismatches 777;	Indels 171;
				Gaps 77;

Qy	46	TTTGGGGGTTACCTTTGGGCTCTTCTCTAAATGGTCTTGAGACAGAGCGTGGGCTCA	105
Db	307	TTTACGTGATAGCAATGGTGCGCTCTCTGTTTCCATGTGGACCAATTAAGGCTGAG	366
Qy	106	GGGAGACGTGCCAACACAGGACAGAACATGATGCTCTTCAGGGTATCGACTGCAG	165
Db	367	ACAGAAATGGAAGGAAGAACAGACGTGGCGAGTGTACTGGCTCTATTACTGTAA	426
Qy	166	GAGGCTGCATCCCTGCCAATCTGGTACCCTGGAGAACCTTCCTCTGGGGACAAGATTGCC	223
Db	427	AAGGGGGGATTTTATCCCAATTTGGGACCCCAAGACCTTCCTTTGGAGCAAAATTTGCT	486
Qy	226	AGGTCATTTGCTATTTTTGGGCGCTGATTTATCATGTCTCTGGGGGTGCATCATTCGT	285
Db	487	AGAGCAGACTGTGATTTTGTGGCCATGTGTACATATTTTCTTGGAGTCTCAATCATTTGCT	546
Qy	286	GACCGCTTCATGSCATCTATTGAATCATCACTCTCAAGAGAGGAGTGTACAAATTAA	345

D	547	GACCGTTCA	GTGCTCTAT	ATAGAAGTC	ATACAGCTC	CAAGNAA	GAAGTAAT	CAACATAAG	606	
Q	346	AAACCCAA	TGGAGAAAC	CACACAC	AACTATTC	GGGCTC	GTGAATGA	AATCTGTCCAA	405	
D	607	AAACCCAA	TGGAGAGAC	CACACAG	CAACACTGT	GAGATCT	GGAAATGA	CAAGTGTCCAA	666	
Q	406	CTGACCTT	ATNAGCCCG	GGGTTC	CTCTGCT	CCGAGAT	ACCTCTCT	TTAATGAGGTG	465	
D	667	CTGACCTT	GTATGGCC	CTGGGGCTT	TAAGCTC	CAGAGATTC	CTTTCA	AGTAATCGAGGTG	726	
Q	526	TTCAACAT	GTTCATCAT	CAATTTG	GCATCTGT	CTACGTG	ATCCACG	AGAGACTCCG	585	
D	787	TTCAACAT	GTTCATCAT	CAATTCG	CTTTGTG	TATGTCT	CCCGATG	GGGAGACAAG	846	
Q	586	AAAGTCA	AGGATCTAG	AGAGCTT	CTTCAATC	ACCCTG	CTTGAATAT	CTTTGCTTACATC	645	
D	847	AAAGTCA	AGGATCTAG	AGAGCTT	CTTCAATC	ACCCTG	CTTGAATAT	CTTTGCTTACATC	906	
Q	646	TGGCTAT	ATATNGATTC	GGGAGATCT	CTCCCGT	GGTGTG	GTGAGATTT	GGGAGAGGCTTC	705	
D	907	TGGCTAT	ATATNGATTC	GGGAGATCT	CTCCCGT	GGTGTG	GTGAGATTT	GGGAGAGGCTTC	966	
Q	706	CTCACTCT	CTCTCTT	CCAGTGTG	CTCTTG	GGCTGG	GTGAGAT	AAACGACTG	765	
D	967	CTCACTCT	CTCTCTT	CCAGTGTG	CTCTTG	GGCTGG	GTGAGAT	AAACGACTG	1026	
Q	766	CTCTTCA	CAAAATCA	ATGCACA	AAAAAGT	ACCCAC	AGACAAAC	ACCAGAGATTAATCA	825	
D	1027	CTGTTTT	CAAGATATG	CTCAAG	AGGATAT	CGGGCTG	GCACAA	AGGAGGAAATGATTA	1086	
Q	826	GAGACAGA	GGGTGAC	CAACC-----	TAAGG	GCATTGA	TGATGATG	GGAAAAATGATG	876	
D	1087	GAAACAGA	GGAGAGAC	AGGCCAT	CTTCC	AGACAG	AAATTTGA	ATTTGGATTTGGAAATGTGTC	1146	
Q	877	AATTC	CCATTTTC-----	TAGATG	GGAACTGTG	TGCCCCCTG	GAAGGAG	AG-----	921	
D	1147	AATTC	CCATGTG	ACATTTCTT	CTTAGATG	AGGCCCTG	TTCTG	GAAGTTGATGAGAGGGAG	1206	
Q	922	---GA	TGGATG	ATGTC	CCCGC	AGAGAG	ATGATC	CGGATTTCTA	AGAGCAAAAA	978
D	1207	CAMAT	ATATGA	AGAGC	AGCAG	AAATGG	TATG	AGATTTCTA	AGAACTCAAGCAGAA	1266
Q	979	CACCCAGA	GAAGGACT	TAGATG	AGCTGTG	GGAGATG	GGCAATTA	CTATGCTCTTTCCAC	1038	
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Q	1039	CAACAGA	AGAGCCG	CTTACCT	TATCC	CAAGCC	ACTGTATG	ATGATGATCTG	GTGACAGC	1098
D	1327	CAGCA	AAAAAGT	GAGGTTT	ATCCG	TATTC	CAAGCTAC	CCGCTGATG	ACCGGAGCAAGC	1386
Q	1099	AATTC	CTGAAGAA	CATG	CAGCAG	ACAAGC	AAAGGCTC	CAGATG	AGCGAGGTG	1158
D	1387	AACAT	TTTAAAG	GAGCAGT	CAGCAG	ACAAGC	AAAGGCTC	CAGATG	AGCGATCATGAGTGC	1446
Q	1159	CACAC	CGATGAG	CGCT---	AGAC	CTTATTT	CCAGGCTT	CTTGAC	ACCATGTTCTTAC	1215
D	1447	AACAC	GGAAATG	CGCTG	AAATG	ACCTGT	CACTA	GTAGATCTTTT	TGAACAAGGACATAT	1506
Q	1216	CAGAG	CTTGAG	AACTGTG	GGGCTGT	ACTCT	CTACAG	ATGAGTGTG	AGGAGGAGACATG	1275
D	1507	CAGTGT	GTGAG	AACTGTG	GGGCTGT	ACTCT	CTACAG	ATGAGTGTG	AGGAGGAGACATG	1566
Q	1276	TCAAA	GACCATG	TATGTG	ACTCA	AAAAACA	GAGAGATG	TTTCC	CAATGACAGGAGCTGAC	1335
D	1567	ACCA	AACTGTG	TTGTG	TACTT	CAGAA	CAGAGATG	GGCACAG	CCAATGCTGTGAT	1626
Q	1336	TATG	ATGTTCA	CAGAGG	CAGGTG	GTCTG	AAAGCC	AGAGAGAC	CCAAGAGATTTCTC	1395

Db 1627 TACGAATTTACCGAAGAACTGTGTCTTTAAGCCTGTGTAGACCCAGAAAGAAATCAGA 1686
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Db 1687 GTTGGCATATGATATGATGACATCTTGTAGAGAGATGAAATTTCTTGTGCATCTCAGC 1746
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Db 1747 AACGTCAAGATATCTTTGGAGAGCCTCGAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1797
Oy 1516 CTTCCCTTGGCTGGGCTGTCTAGAGCTCCCTTGTGTGGCCACAGTTTACCATCTTGAT 1575
Db 1798 CATGTCTTACCTCTTGGCTGGGATCCCTCCACCTCCACCGAGATATTTTGTAT 1857
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Db 1858 GATGACCATGTCGCAATCTTACTTTTGAAGAACCGGTGCTCATGTGATGATGAGAGATT 1917
Oy 1636 GGTGTATGTGAGAGTCAAGGTTCTGCGGACATCAGTGGCCCGGATACAGTCACTGTCGCC 1695
Db 1918 GGCATCATGTGAGAGTGAAGTCTGTGAGAACATCTGAGAGACAGTGGAAATGTTATCTGCC 1977
Oy 1696 TTTAGACAGTGAAG 1755
Db 1978 TATTAAGACATTTGAGGGAG 2037
Oy 1756 GACTTGGAAATTCAGAAATGATGAACTGTGAAACCATTAAGGTTAAATAGTATGAG 1815
Db 2038 GACCTGAGTTCAGAAATGACGAAATGTGCAAAACATTAACATCAAGGTAATTTGATGAT 2097
Oy 1816 GAGGAATTAAGAAAG 1873
Db 2098 GAGGAGTATGAG 2157
Oy 1874 -----AACGTGGA 1882
Db 2158 ATGAGTGAAG 2217
Oy 1883 TATCAATGTGACAG 1901
Db 2218 TACCTGTATGAG 2277
Oy 1902 -----GAAAGTGAATTTGAAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1923
Db 2278 ACTATATACCATTCGCAATGAAATATGATGACACAGAGAGAGAGAGAGAGAGAGAGAGAG 2337
Oy 1924 GAGGCCAAGAGATGACAGAGATGGAAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 1983
Db 2338 GAAAG 2397
Oy 1984 GTATCATTAAG 2043
Db 2398 GTGATCATTGAAGAAATCTTACGAGATTCAGAGATTCGAGAGAGAGAGAGAGAGAGAGAGAG 2457
Oy 2044 AACCTGCTTGGTGTGGGAG 2103
Db 2458 AACCTGAG 2517
Oy 2104 GTGAGTGAAG 2163
Db 2518 GTGAGTGAAG 2577
Oy 2164 TTTGAGTACGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 2223
Db 2578 TTTGAGTACGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 2637
Oy 2224 CCGACAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 2283
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Oy 2284 CTCACCGCATATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 2343
Db 2698 CTCACCGCATATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 2757

Oy 2344 TCAGTCACAGCTGTGTTTCTGTGGCATTTGGCAGCTCTGTCCACAGTATACCTTTGCCAGC 2403
Db 2758 TCCGTGACCCCGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGT 2817
Oy 2404 AAGAGTCGCTCCCTCCAGATGATATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 2463
Db 2818 AAGAGTCGCTCCCTCCAGATGATATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 2877
Oy 2464 AACGCGTCATGCTTCTTCTGAGGATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 2523
Db 2878 AACGCGTCATGCTTCTTCTGAGGATGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 2937
Oy 2524 GCTCTGAGGAG 2583
Db 2938 GCGGCGCAACGCGGAG 2997
Oy 2584 TTCACCATCTTTCATTTGTCTGATCAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 2643
Db 2998 TTCACCATCTTTCATTTGTCTGATCAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 3057
Oy 2644 GAGAGGAG 2703
Db 3058 GAGAGGAG 3117
Oy 2704 CTGTGCTCTTCTTACATCTTGTCCACACTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 2763
Db 3118 CTGTGCTCTTGTACATTTTCTTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 3177
Oy 2764 TAA 2766
Db 3178 TAA 3180

RESULT 7
US-09-864-761-16939
Sequence 16939, Application US/09864761
Patent No. US20020048763A1
GENERAL INFORMATION:
APPLICANT: Penn, Sharon G.
APPLICANT: Rank, David R.
APPLICANT: Hanzel, David K.
APPLICANT: Chen, Wensheng
TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR
FILE REFERENCE: Aemolice-X-1
CURRENT APPLICATION NUMBER: US 09/864,761
PRIOR FILING DATE: 2001-05-23
PRIOR APPLICATION NUMBER: US 60/180,312
PRIOR FILING DATE: 2000-02-04
PRIOR APPLICATION NUMBER: US 60/207,456
PRIOR FILING DATE: 2000-05-26
PRIOR APPLICATION NUMBER: US 09/632,366
PRIOR FILING DATE: 2000-08-03
PRIOR APPLICATION NUMBER: GB 24263.6
PRIOR FILING DATE: 2000-10-04
PRIOR APPLICATION NUMBER: US 60/236,359
PRIOR FILING DATE: 2000-09-27
PRIOR APPLICATION NUMBER: PCT/US01/00666
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00667
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00664
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00669
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00665
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00668
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00663
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00662

PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00661
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: PCT/US01/00670
PRIOR FILING DATE: 2001-01-30
PRIOR APPLICATION NUMBER: US 60/234,687
PRIOR FILING DATE: 2000-09-21
PRIOR APPLICATION NUMBER: US 09/608,408
PRIOR FILING DATE: 2000-06-30
PRIOR APPLICATION NUMBER: US 09/774,203
PRIOR FILING DATE: 2001-01-29
NUMBER OF SEQ ID NOS: 49117
SOFTWARE: Anomax Sequence Listing Engine vers. 1.1
SEQ ID NO 16939
LENGTH: 1836
TYPE: DNA
ORGANISM: Homo sapiens
FEATURE:
OTHER INFORMATION: MAP TO AC007281.3
OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 0.64
OTHER INFORMATION: EXPRESSED IN HELA, SIGNAL = 0.68
OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 0.69
OTHER INFORMATION: EXPRESSED IN HEART, SIGNAL = 6.1
OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 0.83
OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 1.3
OTHER INFORMATION: EXPRESSED IN PLACENTA, SIGNAL = 0.68
OTHER INFORMATION: NT HIT: X91213.1, EVALUATE 0.00e+00
OTHER INFORMATION: EST_HUMAN HIT: AM452398.1, EVALUATE 0.00e+00
OTHER INFORMATION: SWISSPROT HIT: P32418, EVALUATE 0.00e+00
US-09-864-761-16939

Query Match 28.5%; Score 787.2; DB 10; Length 1836;
Best Local Similarity 68.3%; Pred. No. 2,4e-221;
Matches 1168; Conservative 0; Mismatches 503; Indels 39; Gaps 4;

QY 109 GACGTCCCAACAGGCGCAGACAGATGCTCTGTCAGGCTCATCGGACTGCAAGAG 168
DB 133 GAAATGGAAGAGAGAAATGAATGAATGTAATGATGATGATGATGATGATGATG 192
QY 169 GGTGTCAATCCGCAATGCTGATCCGAGAACCTTCCCTGGGCAACAAATGGCCAG 228
DB 193 GGGGTGATTTTGGCCATTTGGGAACCCCAAGACCTTCTTTTGGGCAAAAATGGCTAGA 252
QY 229 GTCAATGTCATTTTGTGGCCCTGATATACATGTTCTTGGGGTGTCCATCATTTGCTAC 288
DB 253 GCTACTGTCATTTTGTGGCCCTGATATACATGTTCTTGGGGTGTCCATCATTTGCTAC 312
QY 289 CGCTTCATGATCTATTTGAAGTATCACCCTCAAGAGAGAGAGTGAACAATTAAGAAA 348
DB 313 CGGTTCATGCTCTATGAGATCATCATCTCAAGAAAAGAAATTAACATTAAGAAA 372
QY 349 CCCAATGAGAAACAGCAACCACTATTCGGGTCTGAGATGAAGCTGTCCAACTG 408
DB 373 CCCAATGAGAAACAGCAACCACTATTCGGGTCTGAGATGAAGCTGTCCAACTG 432
QY 409 ACCCTTATGAGCCCTGGGTTCTCTGCTCTGAGATGATCTCTCTTATTAATGAGGTGT 468
DB 433 ACCTTATGAGCCCTGGGTTCTCTGCTCTGAGATGATCTCTCTTATTAATGAGGTGT 492
QY 469 GGTATGAGGTCTATGCTGTGATGATGAGACCTTCTACCATTTGAGGATGAGACCTTC 528
DB 493 GGCCTAATCTTCACTGAGAGACCTGCTGCTGACACCACTGAGGAGAGTGTGCTCATTC 552
QY 529 AACATGTCATCATGATGAGATGATGATGATGATGATGATGATGATGATGATGATGATG 588
DB 553 AATATGTCATCATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 612
QY 589 ATCAAGCATCTACAGATCTCTTCTATCACCCTGCTTGGAGATCTTCTTCTTCTTCTG 648
DB 613 ATTAAGCATCTTCT 672
QY 649 CTCATATGATCTGAGCT 708

DB 673 CTATATATATTTTGTCTGATATCTCTGCTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 732
QY 709 ACT 768
DB 733 ACTTCT 792
QY 769 TTCTCAAAATACATGACCAAAAAGTACCAGACAGCAAAACCGAGAAATTAATCATAG 828
DB 793 TTTTCAAAAGTATGCTACAAAGATGATGAGACTGCAAGAGAGAGAGAGATGATTAAGAA 852
QY 829 ACAGAGGTGACACACC-----TAAGGCTTGAATGATGATGAGAAATGATGAT 879
DB 853 CATTAAGAGAGACAGGCAATCTTCTAAGACTGAATTAAGAAATGAGAGAGAGAGAGAG 912
QY 880 TCCCATTTTCTAGATGGAACCTGTCGCCCTGTGGAAGAGAG----- 921
DB 913 TCTCATGTTGAAAATTTCTTGTGATGCTGTCTGTCTGTGAGAGTGTGATGAGAGGACCA 972
QY 922 GAAGTGTAGAGTCCCGCAGAGAGATGATCCGATTTCTCAAGATCTGAAGCAAAAAC 981
DB 973 GATGATGAGAGAGTACGAGGAGAAATGCTGATGATCTGAAGAACTTAAGCAAGACAT 1032
QY 982 CCAGAGAGAGCTTAGATCAGCTGCTGAGATGAGCCAAATTAATGCTCTTCCACCAA 1041
DB 1033 CCAGATTAAGAAATGAGCAATTAATGAAATTAAGTAACTCAAGTCTTAAGTCAAG 1092
QY 1042 CAGAGAGAGCCGCGCTTCTACCTGATCCAGACCCACTGATATGATGATGATGATGATGAT 1101
DB 1093 CAAAAGATAGAGATTTTATCGCATTCAGCTTCTGCTTCTGATGATGATGATGATGATG 1152
QY 1102 ATCTGGAAGAAATGAGCAAGCAAGCAAGAGGCTTCCAGTACGAGGCTGCAC 1161
DB 1153 ATTTTAAAGAGAGATGAGCAAGCAAGCAAGAGGCTTCCAGTACGAGGCTGCAC 1212
QY 1162 ACCGATGAGCTG---AGGATTTATTTCCAAAGTCTCTTCTTGAAGCCATGTTCTTACAG 1218
DB 1213 ACTGAAGTACTGAAGAAATGAGCAAGCAAGCAAGAGTCTTCTTGAAGCAAGGAGCAATACAG 1272
QY 1219 TGCCGTGAGAGACTGAGGAGCTGATCTCTGACATGATGATGATGATGATGATGATGATGAT 1278
DB 1273 TGTCTGAGAGAACTGTGATCTGTGAGGCTTTCATTTATCCGACAGAGTGTGATGATGAT 1332
QY 1279 AAGACATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1338
DB 1333 AAGACATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1392
QY 1339 GAGTTCACAGAGGAGGAGGAGGATCTGAAGCCAGAGAGAGAGAGAGAGAGAGAGAGAG 1398
DB 1393 GAATTTACTGAGAGAACTGTGATGATGATGATGATGATGATGATGATGATGATGATGAT 1452
QY 1399 GGCATTAATGATGAGCAATTTTGAAGAGATGAACACTCTTGTGAAGTGTGAGCAAT 1458
DB 1453 GGTATCATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1512
QY 1459 GTCCGATAG 1518
DB 1513 GTCAAGATATCTTGAAGCTTCAAGAGATGAGCAATGAGAGAGAGAGAGAGAGAGAG 1563
QY 1519 CCCCTGCTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1578
DB 1564 GTTCTCATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1633
QY 1579 GACCATGAG 1638
DB 1624 GACCATGAG 1683
QY 1639 GTTATGAGAGTCAAGGTTCTGAGAGATCAGTCCCGGAGTACAGTATCTGCTCTT 1658
DB 1684 ATCATGAGAGTGAAGATGATGAGAACTCTGAGAGAGAGAGAGAGAGAGAGAGAGAG 1743
QY 1699 AGGACATGAG 1758
DB 1744 AAAACCATGAG 1803


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      : PRIOR APPLICATION NUMBER: PCT/US01/00665
      : PRIOR FILING DATE: 2001-01-30
      : PRIOR APPLICATION NUMBER: PCT/US01/00668
      : PRIOR FILING DATE: 2001-01-30
      : PRIOR APPLICATION NUMBER: PCT/US01/00663
      : PRIOR FILING DATE: 2001-01-30
      : PRIOR APPLICATION NUMBER: PCT/US01/00662
      : PRIOR FILING DATE: 2001-01-30
      : PRIOR APPLICATION NUMBER: PCT/US01/00661
      : PRIOR FILING DATE: 2001-01-30
      : PRIOR APPLICATION NUMBER: PCT/US01/00670
      : PRIOR FILING DATE: 2001-01-30
      : PRIOR APPLICATION NUMBER: US 60/234,687
      : PRIOR FILING DATE: 2000-09-21
      : PRIOR APPLICATION NUMBER: US 09/608,408
      : PRIOR FILING DATE: 2000-06-30
      : PRIOR APPLICATION NUMBER: US 09/774,203
      : PRIOR FILING DATE: 2001-01-29
      : NUMBER OF SEQ ID NOS: 49117
      : SOFTWARE: Anomax Sequence Listing Engine vers. 1.1
      : SEQ ID NO 17938
      : LENGTH: 151
      : TYPE: DNA
      : ORGANISM: Homo sapiens
      : FEATURE:
      : OTHER INFORMATION: MAP TO AC007254.2
      : OTHER INFORMATION: EXPRESSED IN PLACENTA, SIGNAL = 1.5
      : OTHER INFORMATION: EXPRESSED IN FETAL LIVER, SIGNAL = 1.2
      : OTHER INFORMATION: EXPRESSED IN LUNG, SIGNAL = 1.3
      : OTHER INFORMATION: EXPRESSED IN BT474, SIGNAL = 0.97
      : OTHER INFORMATION: EXPRESSED IN HEART, SIGNAL = 4.8
      : OTHER INFORMATION: EXPRESSED IN BRAIN, SIGNAL = 2.4
      : OTHER INFORMATION: EXPRESSED IN ADULT LIVER, SIGNAL = 0.88
      : OTHER INFORMATION: EXPRESSED IN HELA, SIGNAL = 5.6
      : OTHER INFORMATION: EXPRESSED IN HB100, SIGNAL = 1.2
      : OTHER INFORMATION: EXPRESSED IN BONE MARROW, SIGNAL = 0.96
      : OTHER INFORMATION: EST_HUMAN HIT: T19755.1, EVALUO 5.00e-65
      : OTHER INFORMATION: SWISSPROT HIT: Q01728, EVALUO 1.00e-14
      : US-09-864-761-17938
    }
  }
}

Query Match          3.4%; Score 95; DB 10; Length 151;
Best Local Similarity 76.8%; Pred.No. 3.2e-18;
Matches 116; Conservative 0; Mismatches 35; Indels 0; Gaps 0;

Oy   2366 TGGCAATTGGCAGCTGTGTCGCCAGATAGCGTTTGCCAGAAAGCTGCCTCCAGATG 2425
      |||||               |||||||              |  ||| |||||
Db   151 TGACTTTCTCTCTCTCTCTCTGTCAGACACATTTGGCAGCAAGTAGTGACCACCCAGCAC 92
      |||||               |||||||              |  ||| |||||

Oy   2426 TATATGCAAGAGCGCCCTCCATTGGCAACGTGACAGGAGGAGCAAGCCGTCATGTTCTCTGG 2485
      |||||               |||||||              |  ||| |||||
b    91 AGTAATGACAGAGCCCTCCATTAGTAAGTCACAGGGGAGCAAGCCGATGTCTTCTG 32
      |||||               |||||||              |  ||| |||||

Oy   2486 GCATGCGCTGAGCGCTGATCGTCGTCGGAGCGCAT 2516
      |||||               |||||||              |  ||| |||||
Db   31 GAATGCGTGTGCGCTGTGTCATCGCTGCCAT 1
      |||||               |||||||              |  ||| |||||

RESULT 13
US-09-938-842A-2591
: Sequence 2591, Application US/09938842A
: Patent No. US20020160378A1
: GENERAL INFORMATION:
: APPLICANT: Harper, Jeff
: APPLICANT: Kreps, Joel
: APPLICANT: Wang, Xun
: APPLICANT: Zhu, Tong
: TITLE OF INVENTION: STRESS-REGULATED GENES OF PLANTS, TRANSGENIC PLANTS CONTAINING
: FILE REFERENCE: SCRIPI300-3
: CURRENT APPLICATION NUMBER: US/09/938,842A
: CURRENT FILING DATE: 2001-08-24
: PRIOR APPLICATION NUMBER: US 60/227,866
: PRIOR FILING DATE: 2000-08-24

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Prior Application Number: US 60/264,647
Prior Filing Date: 2001-01-16
Prior Application Number: US 60/300,111
Prior Filing Date: 2001-06-22
Number Of Seq ID NOS: 5379
Seq ID No 2591
Length: 1617
Type: DNA
Organism: Arabidopsis thaliana
US-09-938-B42A-2591

Query Match 2.8% : Score 76.6; DB 9; Length 1617;
Best Local Similarity 46.8%; Pred. No. 4,66-12;
Matches 275; Conservative 0; Mismatches 309; Indels 3; Gaps 1;

QY 2174 TCATGCACTTCCGTGACTGTCCTTGGAAGGTGGTTGGTCCCTGTGTGGCCCCACAGA GT 2233
 ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 1031 TCTGCATTACTCCTCGCCCTTGGAANAAGCTTTTGTGCTTTGGCCCCCTGCAACA 1090

QY 2234 ACTGCCAGGCGTGGGCGCTTCGCGCCGCTCCATTCCTCATATTGGCATGTCTACC GCCA 2233
 ||||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 1091 TTGCTCAGGGTGGATGCCCTTTCATCTGCTCTCTCTCTTCTCATAGTGGAGTAACCTT TG 1150

QY 2294 TCATTGGGGACCTGGCGCTCGGACCTTCGGCTCACCATTTGGTCTCAAAAGATTCAGTCA AG 2353
 ||||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 1151 TTGTACAAAGATTACGTACCTTATTAAGCTGTGTACTGTGATATAAACCATATATGTG ATAG 1210

QY 2354 CTGTGTTTTCGTGGCATTTTGGCACCTCTGTGCCAGATACCTTTGGCCAGCAAACCTG CTG 2413
 ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 1211 CATTCACAGCACTGSCAGAGTGGAACTTCAATGGCCAGACTTAGTAGCAAGTAATAATTC GCTG 1270

QY 2414 CCTTCACAGATGATATATGCAAGCGCTTCATTTGGCAACGTATAGGGGACAGCAAGCCGT CA 2473
 ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 1271 CAGAGCGAACAATCAACCCGAGATTACGCTATTGGCAAAACATCACCTGCAGTAACTCG GTGA 1330

QY 2474 AATGCTTCCGTGGGATTCGGCGCTGGTCCGTGCGCGCCCATCT ---ACTGGGCTG CGC 2530
 ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 1331 ACATCTATGTGGGGATTTGGAGTTCGCTGCGATTAACACAGCTACACACTACTTTG CAT 1380

QY 2531 AGGACAGAGATTCACGCTGTGCGCGGACACATGCGCCCTTCCGTGACCCCTTTTCA CA 2590
 ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 1391 ACAAGAGACCTTTATACATAGAAAAGCTAAAGATTAAAGCTTTTTCGCTGTGATTTCT 1450

QY 2591 TCTTTGCAATTGTCTGCATACACGCTGCTCTTGTACCCAAGCGCGCACCTGGAGGGG 2650
 ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 1451 TTGCGACATCAAGTGGAGTATCTGTGGTCTTGTGTGAGAAAGTTGATTATAGAGACTG 1510

QY 2651 AGCTTGGTGGGCCCCCGTGGCGCAAGCTCGGCACAACTGAGCTCTTGTGTGAGCGCTG GGC 2710
 ||||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 1511 AGCTTGGAGGTCCAAAGCTATAGGGCTTGCTTACTTCTGCTATTTCAATGATGCTTTGGG 1570

QY 2711 TCTCTATACATCTCTTTGCCACACTAGAGGCTATTGCTACATCAAG 2757
 ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 1571 TCGCTTGGTGTCTTCTTCTTCTTTGAAAGTTTCAAGCGGTATATAG 1617

RESULT 14
US-09-864-761-20736
Sequence 20736, Application US/09864761
Patent No. US20020048763A1
GENERAL INFORMATION:
APPLICANT: Penn, Sharron G.
APPLICANT: Rank, David R.
APPLICANT: Hanzel, David K.
APPLICANT: Chen, Wensheng
TITLE OF INVENTION: HUMAN GENOME-DERIVED SINGLE EXON NUCLEIC ACID PROBES USEFUL FOR
FILE REFERENCE: Aeomica-X-1
CURRENT APPLICATION NUMBER: US/09/864,761
CURRENT FILING DATE: 2001-05-23
PRIOR APPLICATION NUMBER: US 60/180,312
PRIOR FILING DATE: 2000-02-04
PRIOR APPLICATION NUMBER: US 60/207,456

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